

IN THE CLAIMS

1. (Canceled) .

2. (Canceled) .

3. (Previously Presented) A communication system, comprising:

a base station controller; and

at least one base transceiver station in communication with the base station controller, wherein at least one of the base station controller and the at least one base transceiver station is dynamically selected, by a selection procedure, to perform a physical channel function, the selection procedure comprising determining at least one characteristic of at least one of:

at least one set of data carried by the at least one base transceiver station, and

transmission of at least one data signal representing the at least one set of data;

wherein the physical channel function comprises at least one of:

a data selection function operating upon the at least one set of data; and

a data distribution function operating upon the at least one set of data;

wherein the physical channel function further comprises:

a resource allocation function controlling allocation of wireless resources of the at least one base transceiver station;

a multiplexing function operating upon the at least one set of data; and

a termination function of at least one of:

a traffic channel carrying the at least one set of data, and

a control channel carrying information for controlling the at least one base transceiver station.

4. (Currently Amended) A system according to ~~claim 1~~
claim 3, wherein the selection procedure is performed for a
first user, thereby generating a first selection result, and
wherein the selection procedure is further performed for a
second user, thereby generating a second selection result, the
first and second selection results being independent from each
other.

5. (Original) A system according to claim 4, wherein
the selection procedure is performed exactly once for at least
one of the first and second users.

6. (Original) A system according to claim 4, wherein
the selection procedure is performed at least twice for at
least one of the first and second users.

7. (Currently Amended) A system according to ~~claim 1~~
claim 3, wherein the selection procedure is performed for a
first communication session, thereby generating a first
selection result, and wherein the selection procedure is
further performed for a second communication session, thereby
generating a second selection result, the first and second
selection results being independent from each other.

8. (Original) A system according to claim 7, wherein
the selection procedure is performed exactly once for at least
one of the first and second communication sessions.

9. (Original) A system according to claim 7, wherein
the selection procedure is performed at least twice for at
least one of the first and second communication sessions.

10. (Currently Amended) A system according to ~~claim 1~~
claim 3, wherein the selection procedure is performed for a
first handoff event, thereby generating a first selection
result, and wherein the selection procedure is further
performed for a second handoff event, thereby generating a
second selection result, the first and second selection
results being independent from each other.

11. (Previously Presented) A communication system, comprising:

a base station controller; and

at least one base transceiver station in communication with the base station controller, wherein at least one of the base station controller and the at least one base transceiver station is dynamically selected, by a selection procedure, to perform a physical channel function, the selection procedure comprising determining at least one characteristic of at least one of:

at least one set of data carried by the at least one base transceiver station, and

transmission of at least one data signal representing the at least one set of data;

wherein the selection procedure further comprises:

using the at least one characteristic to determine a wireless savings amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a backhaul cost amount associated with performing the physical channel function by the at least one base transceiver station;

selecting the at least one base transceiver station if the wireless savings amount exceeds the backhaul cost amount; and

selecting the base station controller if the backhaul cost amount exceeds the wireless savings amount.

12. (Previously Presented) A communication system, comprising:

a base station controller; and

at least one base transceiver station in communication with the base station controller, wherein at least one of the base station controller and the at least one base transceiver station is dynamically selected, by a selection procedure, to perform a physical channel function, the selection procedure comprising determining at least one characteristic of at least one of:

at least one set of data carried by the at least one base transceiver station, and

transmission of at least one data signal representing the at least one set of data;

wherein the selection procedure further comprises:

using the at least one characteristic to determine a first wireless savings amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a first backhaul cost amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a second wireless savings amount associated with performing a call anchor function by the base station controller;

using the at least one characteristic to determine a second backhaul cost amount associated with performing the call anchor function by the base station controller;

selecting the at least one base transceiver station if the first wireless savings amount plus a call anchor location benefit amount minus the first backhaul cost amount exceeds zero, the call anchor location benefit amount comprising the second backhaul cost amount minus the second wireless savings amount; and

selecting the base station controller if the first wireless savings amount plus the call anchor location benefit amount minus the first backhaul cost amount is less than zero.

13. (Canceled).

14. (Canceled).

15. (Previously Presented) A method of communicating, comprising:

determining at least one characteristic of at least one of:

at least one set of data carried by at least one base transceiver station in communication with a base station controller, and

transmission of at least one data signal representing the at least one set of data; and

using the at least one characteristic to dynamically select at least one of the base station controller and the at least one base transceiver station to perform a physical channel function;

wherein the physical channel function comprises at least one of:

a data selection function operating upon the at least one set of data; and

a data distribution function operating upon the at least one set of data;

wherein the physical channel function further comprises:

a resource allocation function controlling allocation of wireless resources of the at least one base transceiver station;

a multiplexing function operating upon the at least one set of data; and

a termination function of at least one of:

a traffic channel carrying the at least one set of data, and

a control channel carrying information for controlling the at least one base transceiver station.

16. (Currently Amended) A method according to ~~claim 13~~ claim 15, wherein the step of using the at least one characteristic is performed for a first user, thereby generating a first selection result, and wherein the step of using the at least one characteristic is further performed for a second user, thereby generating a second selection result, the first and second selection results being independent from each other.

17. (Original) A method according to claim 16, wherein the step of determining and the step of using the at least one characteristic are each performed exactly once for at least one of the first and second users.

18. (Original) A method according to claim 16, wherein the step of determining and the step of using the at least one characteristic are each performed at least twice for at least one of the first and second users.

19. (Currently Amended) A method according to ~~claim 13~~ claim 15, wherein the step of using the at least one characteristic is performed for a first communication session, thereby generating a first selection result, and wherein the step of using the at least one characteristic is further performed for a second communication session, thereby generating a second selection result, the first and second selection results being independent from each other.

20. (Original) A method according to claim 19, wherein the step of determining and the step of using the at least one characteristic are each performed exactly once for at least one of the first and second communication sessions.

21. (Original) A method according to claim 19, wherein the step of determining and the step of using the at least one characteristic are each performed at least twice for at least one of the first and second communication sessions.

22. (Currently Amended) A method according to ~~claim 13~~ claim 15, wherein the step of using the at least one characteristic is performed for a first handoff event, thereby generating a first selection result, and wherein the step of using the at least one characteristic is further performed for a second handoff event, thereby generating a second selection result, the first and second selection results being independent from each other.

23. (Previously Presented) A method of communicating, comprising:

determining at least one characteristic of at least one of:

at least one set of data carried by at least one base transceiver station in communication with a base station controller, and

transmission of at least one data signal representing the at least one set of data; and

using the at least one characteristic to dynamically select at least one of the base station controller and the at least one base transceiver station to perform a physical channel function;

wherein the step of using the at least one characteristic comprises:

using the at least one characteristic to determine a wireless savings amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a backhaul cost amount associated with performing the physical channel function by the at least one base transceiver station;

selecting the at least one base transceiver station if the wireless savings amount exceeds the backhaul cost amount; and

selecting the base station controller if the backhaul cost amount exceeds the wireless savings amount.

24. (Previously Presented) A method of communicating, comprising:

determining at least one characteristic of at least one of:

at least one set of data carried by at least one base transceiver station in communication with a base station controller, and

transmission of at least one data signal representing the at least one set of data; and

using the at least one characteristic to dynamically select at least one of the base station controller and the at least one base transceiver station to perform a physical channel function;

wherein the step of using the at least one characteristic comprises:

using the at least one characteristic to determine a first wireless savings amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a first backhaul cost amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a second wireless savings amount associated with performing a call anchor function by the base station controller;

using the at least one characteristic to determine a second backhaul cost amount associated with performing the call anchor function by the base station controller;

selecting the at least one base transceiver station if the first wireless savings amount plus a call anchor location benefit amount minus the first backhaul cost amount exceeds zero, the call anchor location benefit amount comprising the second backhaul cost amount minus the second wireless savings amount; and

selecting the base station controller if the first wireless savings amount plus the call anchor location benefit amount minus the first backhaul cost amount is less than zero.

25. (Canceled).

26. (Canceled).

27. (Previously Presented) A communication system, comprising:

means for engaging in wireless communication with at least one mobile unit;

means for controlling the means for engaging in wireless communication; and

means for dynamically selecting at least one of the means for controlling and the means for engaging in wireless communication to include physical channel means, the means for dynamically selecting comprising means for determining at least one characteristic of at least one of:

at least one set of data carried by the means for engaging in wireless communication, and

transmission of at least one data signal representing the at least one set of data;

wherein the physical channel means comprises at least one of:

means for performing a data selection operation upon the at least one set of data; and

means for performing a data distribution operation upon the at least one set of data;

wherein the physical channel means further comprises:

means for performing a resource allocation operation controlling allocation of wireless resources of the means for engaging in wireless communication;

means for performing a multiplexing operation upon the at least one set of data; and

means for terminating at least one of:

a traffic channel carrying the at least one set of data, and

a control channel carrying information for controlling the means for engaging in wireless communication.

28. (Currently Amended) A system according to ~~claim 25~~
claim 27, wherein the means for dynamically selecting
comprises:

means for generating a first selection result by
selecting, for a first user, a first selected one of the means
for controlling and the means for engaging in wireless
communication; and

means for generating a second selection result by
selecting, for a second user, a second selected one of the
means for controlling and the means for engaging in wireless
communication, the first and second selection results being
independent from each other.

29. (Original) A system according to claim 28, wherein
at least one of the means for generating the first selection
result and the means for generating the second selection
result generates exactly one selection result.

30. (Original) A system according to claim 28, wherein
at least one of the means for generating the first selection
result and the means for generating the second selection
result generates at least two selection results.

31. (Currently Amended) A system according to ~~claim 25~~
claim 27, wherein the means for dynamically selecting
comprises:

means for generating a first selection result by
selecting, for a first communication session, a first selected
one of the means for controlling and the means for engaging in
wireless communication; and

means for generating a second selection result by
selecting, for a second communication session, a second
selected one of the means for controlling and the means for
engaging in wireless communication, the first and second
selection results being independent from each other.

32. (Original) A system according to claim 31, wherein
at least one of the means for generating the first selection
result and the means for generating the second selection
result generates exactly one selection result.

33. (Original) A system according to claim 31, wherein
at least one of the means for generating the first selection
result and the means for generating the second selection
result generates at least two selection results.

34. (Currently Amended) A system according to ~~claim 25~~
claim 27, wherein the means for dynamically selecting
comprises:

means for generating a first selection result by
selecting, for a first handoff event, a first selected one of
the means for controlling and the means for engaging in
wireless communication; and

means for generating a second selection result by
selecting, for a second handoff event, a second selected one
of the means for controlling and the means for engaging in
wireless communication, the first and second selection results
being independent from each other.

35. (Previously Presented) A communication system, comprising:

means for engaging in wireless communication with at least one mobile unit;

means for controlling the means for engaging in wireless communication; and

means for dynamically selecting at least one of the means for controlling and the means for engaging in wireless communication to include physical channel means, the means for dynamically selecting comprising means for determining at least one characteristic of at least one of:

at least one set of data carried by the means for engaging in wireless communication, and

transmission of at least one data signal representing the at least one set of data;

wherein the means for dynamically selecting further comprises:

means for using the at least one characteristic to determine a wireless savings amount associated with performing the physical channel function by the means for engaging in wireless communication;

means for using the at least one characteristic to determine a backhaul cost amount associated with performing the physical channel function by the means for engaging in wireless communication;

means for selecting the means for engaging in wireless communication if the wireless savings amount exceeds the backhaul cost amount; and

means for selecting the means for controlling if the backhaul cost amount exceeds the wireless savings amount.

36. (Previously Presented) A communication system, comprising:

means for engaging in wireless communication with at least one mobile unit;

means for controlling the means for engaging in wireless communication; and

means for dynamically selecting at least one of the means for controlling and the means for engaging in wireless communication to include physical channel means, the means for dynamically selecting comprising means for determining at least one characteristic of at least one of:

at least one set of data carried by the means for engaging in wireless communication, and

transmission of at least one data signal representing the at least one set of data;

wherein the means for dynamically selecting further comprises:

means for using the at least one characteristic to determine a first wireless savings amount associated with performing the physical channel function by the means for engaging in wireless communication;

means for using the at least one characteristic to determine a first backhaul cost amount associated with performing the physical channel function by the means for engaging in wireless communication;

means for using the at least one characteristic to determine a second wireless savings amount associated with performing a call anchor function by the means for controlling;

means for using the at least one characteristic to determine a second backhaul cost amount associated with performing the call anchor function by the means for controlling;

means for selecting the means for engaging in wireless communication if the first wireless savings amount plus a call anchor location benefit amount minus the first backhaul cost amount exceeds zero, the call anchor location benefit amount comprising the second backhaul cost amount minus the second wireless savings amount; and

means for selecting the means for controlling if the first wireless savings amount plus the call anchor location benefit amount minus the first backhaul cost amount is less than zero.

37. (Canceled).

38. (Canceled).

39. (Previously Presented) A computer-readable medium having a set of instructions operable to direct a processor to perform the steps of:

determining at least one characteristic of at least one of:

at least one set of data carried by at least one base transceiver station in communication with a base station controller, and

transmission of at least one data signal representing the at least one set of data; and

using the at least one characteristic to dynamically select at least one of the base station controller and the at least one base transceiver station to perform a physical channel function;

wherein the physical channel function comprises at least one of:

a data selection function operating upon the at least one set of data; and

a data distribution function operating upon the at least one set of data;

wherein the physical channel function further comprises:

a resource allocation function controlling allocation of wireless resources of the at least one base transceiver station;

a multiplexing function operating upon the at least one set of data; and

a termination function of at least one of:

a traffic channel carrying the at least one set of data, and

a control channel carrying information for controlling the at least one base transceiver station.

40. (Currently Amended) A computer-readable medium according to ~~claim 37~~ claim 39, wherein the step of using the at least one characteristic is performed for a first user, thereby generating a first selection result, and wherein the step of using the at least one characteristic is further performed for a second user, thereby generating a second selection result, the first and second selection results being independent from each other.

41. (Original) A computer-readable medium according to claim 40, wherein the step of determining and the step of using the at least one characteristic are each performed exactly once for at least one of the first and second users.

42. (Original) A computer-readable medium according to claim 40, wherein the step of determining and the step of using the at least one characteristic are each performed at least twice for at least one of the first and second users.

43. (Currently Amended) A computer-readable medium according to ~~claim 37~~ claim 39, wherein the step of using the at least one characteristic is performed for a first communication session, thereby generating a first selection result, and wherein the step of using the at least one characteristic is further performed for a second communication session, thereby generating a second selection result, the first and second selection results being independent from each other.

44. (Original) A computer-readable medium according to claim 43, wherein the step of determining and the step of using the at least one characteristic are each performed exactly once for at least one of the first and second communication sessions.

45. (Original) A computer-readable medium according to claim 43, wherein the step of determining and the step of using the at least one characteristic are each performed at least twice for at least one of the first and second communication sessions.

46. (Currently Amended) A computer-readable medium according to ~~claim 37~~ claim 39, wherein the step of using the at least one characteristic is performed for a first handoff event, thereby generating a first selection result, and wherein the step of using the at least one characteristic is further performed for a second handoff event, thereby generating a second selection result, the first and second selection results being independent from each other.

47. (Previously Presented) A computer-readable medium having a set of instructions operable to direct a processor to perform the steps of:

determining at least one characteristic of at least one of:

at least one set of data carried by at least one base transceiver station in communication with a base station controller, and

transmission of at least one data signal representing the at least one set of data; and

using the at least one characteristic to dynamically select at least one of the base station controller and the at least one base transceiver station to perform a physical channel function;

wherein the step of using the at least one characteristic comprises:

using the at least one characteristic to determine a wireless savings amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a backhaul cost amount associated with performing the physical channel function by the at least one base transceiver station;

selecting the at least one base transceiver station if the wireless savings amount exceeds the backhaul cost amount; and

selecting the base station controller if the backhaul cost amount exceeds the wireless savings amount.

48. (Previously Presented) A computer-readable medium having a set of instructions operable to direct a processor to perform the steps of:

determining at least one characteristic of at least one of:

at least one set of data carried by at least one base transceiver station in communication with a base station controller, and

transmission of at least one data signal representing the at least one set of data; and

using the at least one characteristic to dynamically select at least one of the base station controller and the at least one base transceiver station to perform a physical channel function;

wherein the step of using the at least one characteristic comprises:

using the at least one characteristic to determine a first wireless savings amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a first backhaul cost amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a second wireless savings amount associated with performing a call anchor function by the base station controller;

using the at least one characteristic to determine a second backhaul cost amount associated with performing the call anchor function by the base station controller;

selecting the at least one base transceiver station if the first wireless savings amount plus a call anchor location benefit amount minus the first backhaul cost amount exceeds zero, the call anchor location benefit amount comprising the second backhaul cost amount minus the second wireless savings amount; and

selecting the base station controller if the first wireless savings amount plus the call anchor location benefit amount minus the first backhaul cost amount is less than zero.

49. (Canceled).

50. (Canceled).

51. (Previously Presented) A communication system, comprising:

a first network;

a gateway connecting the first network to a second network;

a mobile unit;

a base station controller in communication with the first network; and

at least one base transceiver station in communication with the mobile unit and the first network, wherein at least one of the base station controller and the at least one base transceiver station is dynamically selected, by a selection procedure, to perform a physical channel function, the selection procedure comprising determining at least one characteristic of at least one of:

at least one set of data carried by the at least one base transceiver station, and

transmission of at least one data signal representing the at least one set of data;

wherein the physical channel function comprises at least one of:

a data selection function operating upon the at least one set of data; and

a data distribution function operating upon the at least one set of data;

wherein the physical channel function further comprises:

a resource allocation function controlling allocation of wireless resources of the at least one base transceiver station;

a multiplexing function operating upon the at least one set of data; and

a termination function of at least one of:

a traffic channel carrying the at least one set of data, and

a control channel carrying information for controlling the at least one base transceiver station.

52. (Currently Amended) A system according to ~~claim 49~~ claim 51, wherein the selection procedure is performed for a first user, thereby generating a first selection result, and wherein the selection procedure is further performed for a second user, thereby generating a second selection result, the first and second selection results being independent from each other.

53. (Original) A system according to claim 52, wherein the selection procedure is performed exactly once for at least one of the first and second users.

54. (Original) A system according to claim 52, wherein the selection procedure is performed at least twice for at least one of the first and second users.

55. (Currently Amended) A system according to ~~claim 49~~ Claim 51, wherein the selection procedure is performed for a first communication session, thereby generating a first selection result, and wherein the selection procedure is further performed for a second communication session, thereby generating a second selection result, the first and second selection results being independent from each other.

56. (Original) A system according to claim 55, wherein the selection procedure is performed exactly once for at least one of the first and second communication sessions.

57. (Original) A system according to claim 55, wherein the selection procedure is performed at least twice for at least one of the first and second communication sessions.

58. (Currently Amended) A system according to ~~claim 49~~ claim 51, wherein the selection procedure is performed for a first handoff event, thereby generating a first selection result, and wherein the selection procedure is further performed for a second handoff event, thereby generating a second selection result, the first and second selection results being independent from each other.

59. (Previously Presented) A communication system, comprising:

a first network;

a gateway connecting the first network to a second network;

a mobile unit;

a base station controller in communication with the first network; and

at least one base transceiver station in communication with the mobile unit and the first network, wherein at least one of the base station controller and the at least one base transceiver station is dynamically selected, by a selection procedure, to perform a physical channel function, the selection procedure comprising determining at least one characteristic of at least one of:

at least one set of data carried by the at least one base transceiver station, and

transmission of at least one data signal representing the at least one set of data;

wherein the selection procedure further comprises:

using the at least one characteristic to determine a wireless savings amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a backhaul cost amount associated with performing the physical channel function by the at least one base transceiver station;

selecting the at least one base transceiver station if the wireless savings amount exceeds the backhaul cost amount; and

selecting the base station controller if the backhaul cost amount exceeds the wireless savings amount.

60. (Previously Presented) A communication system, comprising:

a first network;

a gateway connecting the first network to a second network;

a mobile unit;

a base station controller in communication with the first network; and

at least one base transceiver station in communication with the mobile unit and the first network, wherein at least one of the base station controller and the at least one base transceiver station is dynamically selected, by a selection procedure, to perform a physical channel function, the selection procedure comprising determining at least one characteristic of at least one of:

at least one set of data carried by the at least one base transceiver station, and

transmission of at least one data signal representing the at least one set of data;

wherein the selection procedure further comprises:

using the at least one characteristic to determine a first wireless savings amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a first backhaul cost amount associated with performing the physical channel function by the at least one base transceiver station;

using the at least one characteristic to determine a second wireless savings amount associated with performing a call anchor function by the base station controller;

using the at least one characteristic to determine a second backhaul cost amount associated with performing the call anchor function by the base station controller;

selecting the at least one base transceiver station if the first wireless savings amount plus a call anchor location benefit amount minus the first backhaul cost amount exceeds zero, the call anchor location benefit amount comprising the second backhaul cost amount minus the second wireless savings amount; and

selecting the base station controller if the first wireless savings amount plus the call anchor location benefit amount minus the first backhaul cost amount is less than zero.

Please cancel Claims 1, 2, 13, 14, 25, 26, 37, 38, 49, and 50 as indicated above without prejudice or disclaimer.